



**PATENT**

Case Docket No. DATUMTE.017A

Date: January 5, 2004

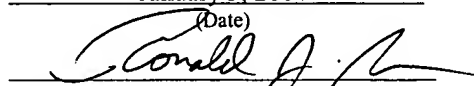
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants : McAdam, et. al.  
Appl. No. : 10/725,183  
Filed : December 1, 2003  
For : FLEXIBLE ADAPTATION  
ENGINE FOR ADAPTIVE  
TRANSVERSAL FILTERS  
Examiner : Unknown  
Group Art Unit : Unknown

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

January 5, 2004

(Date)

  
Ronald J. Schoenbaum, Reg. No. 38,297

**TRANSMITTAL LETTER**

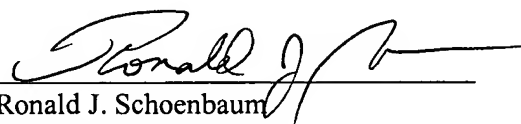
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Enclosed for filing in the above-identified application are the following:

- (X) A Power of attorney form and copy of assignment in 2 pages; and
- (X) A return prepaid postcard.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.

  
Ronald J. Schoenbaum  
Registration No. 38,297  
Attorney of Record  
Customer No. 20,995  
(949) 760-0404



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : McAdam, et. al. )  
App. No. : Unknown at this time (10/725,183) )  
Filed : Herewith (December 1, 2003) )  
For : FLEXIBLE ADAPTATION ENGINE )  
FOR ADAPTIVE TRANSVERSAL )  
FILTERS )  
Examiner : Unknown )

ESTABLISHMENT OF RIGHT OF ASSIGNEE TO TAKE ACTION  
AND  
REVOCATION AND POWER OF ATTORNEY

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The undersigned is empowered to act on behalf of the assignee below (the "Assignee"). A true copy of the original Assignment of the above-captioned application from the inventor(s) to the Assignee is attached hereto. This Assignment represents the entire chain of title of this invention from the Inventor(s) to the Assignee.

I declare that all statements made herein are true, and that all statements made upon information and belief are believed to be true, and further, that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001, and that willful, false statements may jeopardize the validity of the application, or any patent issuing thereon.

The undersigned hereby revokes any previous powers of attorney in the subject application, and hereby appoints the registrants of Knobbe, Martens, Olson & Bear, LLP, 2040 Main Street, Fourteenth Floor, Irvine, California 92614, Telephone (949) 760-0404, **Customer**

App. No. : Unknown at this time (10/725,183)  
Filed : Herewith (December 1, 2003)

No. 20,995, as its attorneys with full power of substitution and revocation to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith. This appointment is to be to the exclusion of the inventor(s) and his attorney(s) in accordance with the provisions of 37 C.F.R. § 3.71.

Please use **Customer No. 20,995** for all communications.

PMC-Sierra, Inc.

Dated: \_\_\_\_\_

*Dec 1, 03*

By: \_\_\_\_\_

*[Signature]*

Greg Aasen

Title: Chief Operating Officer

Address: Mission Tower One  
3975 Freedom Circle  
Santa Clara, CA 95054

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111903

COPY

Application No.: Unknown  
Filing Date: Herewith

PATENT  
Client Code: DATUMTE.017A  
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ASSIGNMENT

WHEREAS, We, Matthew W. McAdam, a Canadian citizen, residing at 102-1023 Wolfe Ave, Vancouver, BC Canada V6H 1V6, ~~Vancouver, BC Canada V6H 1M3~~, Andrew S. Wright, a dual British and Canadian citizen, residing at 3741 West 35<sup>th</sup> Avenue, Vancouver, BC Canada V6N 2N6 and Bill M. Lye, a Canadian citizen, residing at 3101 Starlight Way Coquitlam, BC Canada V3C 3P9, have invented certain new and useful improvements in a FLEXIBLE ADAPTATION ENGINE FOR ADAPTIVE TRANSVERSAL FILTERS for which we have executed an application for Letters Patent in the United States, on even date herewith;

AND WHEREAS, PMC-Sierra, Inc. (hereinafter "ASSIGNEE"), a Delaware Corporation, with its principal place of business at Mission Tower One, 3975 Freedom Circle, Santa Clara, California 95054, desires to acquire the entire right, title, and interest in and to the improvements and the Application:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, the inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the improvements, and the application and all provisional applications relating thereto (including provisional application 60/461,065, filed April 7, 2003), and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for improvements to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 20 day of November, 2003.

Matthew W. McAdam

Bill Lye  
Witness Name

[Signature]  
Witness Signature

Application No.: Unknown  
Filing Date: Herewith

COPY

PATENT  
Client Code: DATUMTE.017A  
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IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 24 day of Nov., 2003.

Andrew S. Wright  
Andrew S. Wright

V. Cappelletti  
Witness Name

V. Cappelletti  
Witness Signature

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 20 day of November, 2003.

Bill M. Lye  
Bill M. Lye

Matthew M. Adan  
Witness Name

[Signature]  
Witness Signature